

**Abstract of the Disclosure**

The static mixer comprising mixing elements for separating the material to be mixed into a plurality of  
5 streams and means for the layered junction of the same, a transversal edge and guide walls that extend at an angle to said transversal edge, as well as deflecting elements arranged at an angle to the longitudinal axis and provided with openings, includes mixing elements comprising a  
10 transversal edge and a following transversal guide wall and at least two guide walls with lateral end sections and at least one bottom section disposed between said guide walls, thereby defining at least one opening on one side of said transversal edge and at least two openings on the other side  
15 of said transversal edge. In addition to a high mixing efficiency and a low pressure drop, a mixer of this kind provides reduced dead volumes and is thus more effective than mixers of the prior art.